**BIOGRAPHICAL SKETCH**

Name, Surname: **Marco Costanzi**

Date of Bird: October, 18th 1975

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**A. Education and training**

* 2001: Master’s degree in Psychology, Sapienza University of Rome
* 2004: Ph.D. in Neurophysiology, Sapienza University of Rome
* 2005 – 2009: postdoctoral fellow at the Institute of Neuroscience (CNR)
* 2007 – 2010: Specialization course in Cognitive Behavioral Therapy
* 2010 – 2011: resercher at the Institute of Cell Biology and Neurobiology (CNR)

**B. Positions and Honors**

 **Positions**

* 2008 – 2011: Researcher at IBCN - CNR carried out studies on pharmaco-behavioural analysis of learning and memory processes in pathological and physiological conditions
* 2011 – 2014: assistant professor at the Department of Human Sciences of LUMSA
* 2011 – 2016: research associate at the Institute of Cell Biology and Neurobiology (IBCN) of the National Council of Researches (CNR).
* 2011 – present: associate professor at the Department of Human Sciences of LUMSA.

**Honors**

* 2002: awarded with a scholarship to study “learning and memory processes through pharmacological tools and viral vectors”
* 2003: awarded with a scholarship to study “learning and memory processes in animal models”

**Other Academic Appointments**:

* 2004 – 2006: teaching assistant in “ Methodology of research in general psychology” at the Faculty of Psychology, LUMSA University of Rome.
* 2006 – 2008 : teaching assistant in “ Neurophysiology” at the Faculty of Psychology, LUMSA University of Rome.
* 2007: teaching at the qualifying course in somatopsychotherapy of “Istituto Euromediterraneo per la Formazione, Ricerca, Terapia e lo Sviluppo delle Politiche Sociali”
* 2011 – 2014: assistant professor in “Psychobiology and Physiological Psychology” and “Behavioural Genetics”.
* 2014 – present: associate professor in “Physiological Psychology” and “Behavioural Genetics”.

**C. Peer-reviewed Publications**

1. Costanzi M., Battaglia M., Populin R., Cestari V. and Castellano C. (2003). Anandamide and memory in CD1 mice: effects of immobilization stress and of prior experience. *Neurobiology of Learning and Memory*, 79(3):204-211.
2. Castellano C., Rossi-Arnaud C., Cestari V., Costanzi M. (2003). Cannabinoids and memory: animal studies. *Current Drug Targets*, 6(2): 389-402.
3. Costanzi M., Battaglia M., Rossi-Arnaud C., Cestari V., Castellano C. (2004). Effects of anandamide and morphine combinations on memory consolidation in CD1 mice. *Neurobiology of Learning and Memory*, 81:144-149.
4. Amadoro G., Ciotti M.T., Costanzi M., Cestari V., Calissano P., Canu N. (2006). NMDA receptor mediates tau-induced neurotoxicity by calpain and ERK/MAPK activation. *Proc Natl Acad Sci USA*., 103(8):2892-7.
5. Cestari V., Costanzi M., Rossi-Arnaud C. and Castellano C. (2006). A role for ERK2 in reconsolidation of fear memories in mice. *Neurobiology of Learning and Memory*, 86:133-143
6. Costanzi M., Cestari V. and Castellano C. (2007). A possible role for intracellular pathways activation in the modulation of learning and memory processes by the dopaminergic and opioid systems interaction. In *Dopamine Research Advances* (Ed. A. Watanabe) Nova Science Publishers, Inc.
7. Costanzi M., Saraulli D., Rossi-Arnaud C., Aceti M.. and Cestari V. (2009). Memory impairment induced by an interfering task is reverted by pre-frontal cortex lesions: a possible role for an inhibitory process in memory suppression in mice. *Neuroscience*, 158(2):503-13
8. Farioli-Vecchioli S., Saraulli D., Costanzi M., Pacioni S., Cinà I., Aceti M., Micheli L., Bacci A., Cestari V., Tirone F. (2008). The Timing of Differentiation of Adult Hippocampal Neurons is Crucial for Spatial Memory. *PLoS Biology,* 7;6(10):e246
9. Musumeci G., Sciarretta C., Rodríguez-Moreno A., Al Banchaabouchi M., Negrete-Díaz V., Costanzi M., Berno V., Egorov A., von Bohlen und Halbach O., Cestari V., Delgado-García J. and Minichiello L. (2009). TrkB Modulates Fear Learning and Amygdalar Synaptic Plasticity by Specific Docking Sites. *Journal of Neuroscience,;* 29(32):10131-43
10. Farioli-Vecchioli S., Saraulli D., Costanzi M., Leonardi L., Cinà I., Micheli L., Nutini M., Longone P., Oh S.P., Cestari V., Tirone F. (2009). Impaired terminal differentiation of hippocampal granule neurons and defective contextual memory in PC3/Tis21 knockout mice. *PLoS One*, *2009*; 4(12):e8339
11. Batassa E.M., Costanzi M., Saraulli D., Barbato C, Cogoni C and Cestari V. (2010). RISC activity in hippocampus is essential for contextual memory. *Neuroscience Letters,* 471(3):185-8
12. Costanzi M., Cannas S., Saraulli D., Rossi-Arnaud C., Cestari V. (2011). Extinction after retrieval: effects on the associative and nonassociative components of remote contextual fear memory. *Learn. Mem.,* 18: 508-518
13. Farioli-Vecchioli S., Micheli L., Saraulli D., Ceccarelli M., Cannas S., Scardigli R., Leonardi L., Cinà I., Costanzi M., Ciotti M.T., Moreira P., Rouault J.P., Cestari V., Tirone F. (2012). Btg1 is Required to Maintain the Pool of Stem and Progenitor Cells of the Dentate Gyrus and Subventricular Zone. *Front. Neurosci*., 6:124
14. Müller M., Triaca V., Besusso D., Costanzi M., Horn J.M., Koudelka J., Geibel M., Cestari V., Minichiello L. (2012). Loss of NGF-TrkA Signaling from the CNS Is Not Sufficient to Induce Cognitive Impairments in Young Adult or Intermediate-Aged Mice. *Journal of Neuroscience*, 32:14885-14898.
15. Pristerà A, Saraulli D, Farioli-Vecchioli S, Strimpakos G, Costanzi M, di Certo MG, Cannas S, Ciotti MT, Tirone F, Mattei E, Cestari V, Canu N. (2013). Impact of N-tau on adult hippocampal neurogenesis, anxiety, and memory. *Neurobiol Aging*. 34(11):2551-63.
16. Cestari V, Rossi-Arnaud C, Saraulli D, Costanzi M. (2014). The MAP(K) of fear: From memory consolidation to memory extinction. *Brain Res Bull.* S0361-9230(13)00146-9.
17. Farioli-Vecchioli S, Mattera A, Micheli L, Ceccarelli M, Leonardi L, Saraulli D, Costanzi M, Cestari V, Rouault JP, Tirone F. (2014). Running rescues defective adult neurogenesis by shortening the length of the cell cycle of neural stem and progenitor cells. *Stem Cells*. doi: 10.1002/stem.1679.
18. Farioli-Vecchioli S, Ceccarelli M, Saraulli D, Micheli L, Cannas S, D'Alessandro F, Scardigli R, Leonardi L, Cinà I, Costanzi M, Mattera A, Cestari V, Tirone F. (2014). Tis21 is required for adult neurogenesis in the subventricular zone and for olfactory behavior regulating cyclins, BMP4, Hes1/5 and Ids. *Front Cell Neurosci*., 8:98.
19. Costanzi M, Saraulli D., Cannas S., D’Alessandro F, Florenzano F, Rossi-Arnaud C, Cestari V (2014). Fear but not fright: re-evaluating traumatic experience attenuates anxiety-like behaviors after fear conditioning. *Front. In Behav. Neurosci.* 8:279doi: 10.3389/fnbeh.2014.00279
20. Saraulli D, Costanzi M, Mastrorilli V, Farioli-Vecchioli S. (2016) The long run: neuroprotective effects of physical exercise on adult neurogenesis from youth to old age. *Curr Neuropharmacol.* Apr 12. [Epub ahead of print]
21. Spataro P, Saraulli D, Cestari V, Costanzi M, Sciarretta A, Rossi-Arnaud C. (2016) Implicit memory in schizophrenia: a meta-analysis. *Compr Psychiatry.* 69:136-44.
22. Spataro P, Saraulli D, Oriolo D, Costanzi M, Zanetti H, Cestari V, Rossi-Arnaud C. (2016) Memory in pregnancy and post-partum: Item specific and relational encoding processes in recall and recognition. *Scand J Psychol.*, 57(4):271-7.

**D. Research Support**

**Completed Research Support**

2012 – 2014 LUMSA University Research Program 2013 “Encoding traumatic experience in a mouse model of PTSD: a possible role for HSPs.

 (Principal Investigator)

2012 – 2014 MIUR – Prin 2009 number 2009KP83CR “Analysis of the behavioural, biochemical and electrophysiological effects induced by the expression of the Tau protein neurotoxic fragment 26-230.”

 (Co-investigator in a Research Unit, PI from 2013)

2006 – 2008 MIUR - Prin 2006; prot. 2006050725\_003 “Learning and memory processes in mouse models of neurodegenerative diseases”

 (Co-investigator in Research Unit; PI: prof. P. Calissano)

2003 – 2006 MIUR - FIRB Project; prot. RBNE019J7C "Biochemical, electrophysiological, anatomical and behavioural analysis of genetically modified mice in the Ras/MAPK synaptic signalling pathway"

 (member of a Research Unit; PI: Prof. V. Cestari)